



17771

PATENT  
Customer No. 31743  
Attorney Docket No. 2336

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: ) Group Art Unit: 1771  
Gary L. Schroeder, et al. ) Examiner: N. L. Torres Velazquez  
Serial No.: 10/051,814 )  
Filed: January 14, 2002 )  
For: Moist Wipe and Method of Making Same

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

**ASSOCIATE POWER OF ATTORNEY**

I hereby appoint Martin G. Meder, Registration No. 34,674, as associate attorney to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith. If there are any fees due in connection with the filing of this paper, please charge the fees to Deposit Account No. 10-0235.

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Date: October 17, 2003

Respectfully submitted

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**CERTIFICATION UNDER 37 CFR 1.8(a)**

I hereby certify that this Associate Power of Attorney is being deposited with the United States Postal Service as first class mail, postage prepaid, on this date 10-20-03, in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Mary Eckert



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Alexandria, VA 22313-1450

Sir:

**TRANSMITTAL OF INVENTOR'S STATEMENT**

Transmitted herewith is the inventor's statement of Gary Schroeder, an inventor on the above identified patent application.

For any fees that may be required by the filing of this paper, please charge Deposit Account 10-0235. In the event applicant has overlooked the need for any petition and fee for extension of time, and such extension is required, applicant requests that this be considered a petition therefor and that such fee be charged to Deposit Account 10-0235.

Respectfully submitted,

Date: October 17, 2003

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Enclosures: Inventors Statement (3 pages)  
Postcard Receipt

**CERTIFICATION UNDER 37 CFR 1.8(a)**

I hereby certify that this Transmittal of Inventors Statement and the documents referred to as attached therein are being deposited with the United States Postal Service as first class mail, postage prepaid, on this date October 20, 2003, in an envelope addressed to: Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450.

  
Mary Eckert



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Sir:

**INVENTOR'S STATEMENT**

Below please find my inventor's statement.

I am Gary Schroeder and I am an inventor on the above identified patent application.

I received a B. S. in Chemistry from the University of Wisconsin – Oshkosh in December 1976 and I Graduated with High Honors.

I have more than 25 years experience as an analytical chemist and research scientist:  
January 1977 – December 1986 with Kimberly-Clark Corporation  
December 1986 – present with James River Corporation / Fort James Corporation / Georgia-Pacific Corporation

I have performed supporting research and I am named as an inventor on four patents. A summary of these patents is provided in the following table.

Patent Title	Patent Number or Current Status
Method for Manufacturing a Sheet of Paper or Non-Woven in a Foam Medium Using a Non-Ionic Surfactant	Patent 6,103,060
Tissue Products Prepared With an Ion-Paired Softener	Patent 6,245,197
Substrate Treated With Lotion	Patent 5,871,763
Lotionized Tissue Products Containing a pH Balance Compound for the Skin	Patent 6,352,700

## **INTRODUCTION**

I summarized the results of analyses of comparative commercial products (samples 1-7, the present invention is sample 8) to provide an inventor's statement for the present patent application.

## **DISCUSSION**

All of the comparative products tested have a ratio of cationic antibacterial agent in solution (divided by the initial concentration) that is larger than the ratio for the present invention. Most of the listed products do this by adding a substantially larger initial concentration of the cationic antibacterial agent. However, sample 2 uses a higher loading of lotion (3.92 g lotion per gram dry wipe, compared to 3 or less) to maintain the cationic antibacterial agent in solution. Sample 3 uses a hydroentangled web as the wiper, which apparently does not exhibit the same adsorption properties as airlaid fabric webs or bonded carded webs. Therefore, although the surface charge is somewhat higher for the hydroentangled web, the ratio of cationic antibacterial agent that remains in solution is still quite high.

## **DATA**

Sample Number	Store Purchased	Date Acquired
1	Not Sure	Before Dec 20, 2000
2	Shopko®, Neenah, WI	April 12, 2001
3	Pick-n-Save®, Neenah, WI	April 20, 2001
4	Pick-n-Save®, Neenah, WI	April 20, 2001
5	Pick-n-Save®, Neenah, WI	April 20, 2001
6	Pick-n-Save®, Neenah, WI	April 20, 2001
7	In a home first aid kit	Before August 27, 2001

Sample Number	Weight % and Name of Antibacterial (AB)*	Ratio of <u>AB in Lotion</u> Added AB	Type of Wiper Material	Anionic Charge of Wipe (meq/Kg)	Ratio of <u>Lotion (grams)</u> Dry Wipe (g)
1	0.28 bzk cl	About 1	Thermal bonded web	2.00	3.61
2	0.17 bzk cl	0.578	Bonded Carded Web	2.40	3.92
3	0.15 bnzth cl	0.615	Hydroentangled Web	1.88	2.73
4	0.4 bzk cl	0.583	Towel Basesheet	1.22	2.04
5	0.30 bnzth cl	0.593	Bonded Carded Web	1.84	3.31
6	0.145 bzk cl + 0.145 ebzk cl	>0.383**	Thermal Bonded Web	1.67	3.53
7	0.4 bzk cl	0.255	Towel Basesheet	1.43	2.50
8	0.115 bzk cl	0.203	Airlaid Web	1.19	2.32

\* For antibacterials (AB's), bzk cl is benzalkonium chloride, ebzk cl is ethyl benzalkonium chloride, and bnzth cl is benzethonium chloride.

\*\*This analysis to quantify the listed antibacterial agents in the lotion may have missed some of the ethyl benzalkonium chloride. Therefore, the actual level may be a 0.383 fraction of the listed antibacterial agents or slightly higher.

Respectfully submitted,



Gary Schroeder

October 17, 2003